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MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

Monthly Activities Report
of the Air Quality Bureau

April, 1979

PLEASE RETURN

T. Highlights:

The State Implementation Plan (SIP) was submitted to the Environmental Protection Agency for approval. This plan is 865 pages in length and divided into the text and six appendices. The Bureau is awaiting word from the EPA as to whether or not this plan will be approved.

The draft of the Network Review Plan was written and circulated among Bureau members for comment. Towards the end of the month the comments were discussed by the Bureau staff and the final plan is being written for submittal to EPA.

House Bill 716 which concerns non-compliance penalties, and House Bill 273, which is the extension of the Montana Air Pollution Study, were signed into law by the Governor. MAPS will extend for two more years, with the final report due in June, 1981.

2. Ambient Air Quality Network

a. Standards Exceeded

Due to termination in position and vacancy, no information is available for April.

b. Air Stagnation Advisories - None in April

c. Laboratory Status - Not received in April

3. Permits and Tax Credits

a. Construction Permits Applied for

U. S. Gypsum, Fergus County, dust collector
Plum Creek, Fortine, hog fuel boiler
Stauffer Chemical, Silver Bow, slag granulation system
W. R. Grace, Libby, car loading equipment
Rehbein Contracting, Mineral Co., asphalt drum mixer
Rehbein Contracting, asphalt drum mixer
Zook Brothers Construction portable gravel crusher
Zook Brothers Construction, Powell County, jaw crusher
Peabody Coal, Big Sky Mine, mining
Century Paving, Fergus Co., Barber Greene asphalt batch plant
Century Paving, Sheridan Co., dryer drum mixer
Zook Brothers Construction, Toole Co., asphalt plant

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3. Construction Permits applied for, cont.

Maronick Construction, Judith Basin Co., gravel crusher
Robert Tindall, Daniels Co., hot mix dryer drum
Earth Builders, Fergus Co., portable asphalt batch plant
Earth Builders, Fergus Co., portable gravel crusher
Meyer Construction, Sheridan & McCone Co., portable gravel crusher

b. Construction Permits Approved

Baltrusch Construction, Beaverhead Co., batch plant
Peter Kiewit Sons, Big Horn, asphalt batch plant
McIntyre Construction, hot mix plant
McIntyre Construction, hot mix plant
Francis Tindall, Fergus Co., gravel crusher
Francis Tindall, Fergus Co., gravel crusher

c. Tax Credits - None

4. Variance Status:

a. Current:

Anaconda Company, SO₂ variance, approved in November
ASARCO, one year variance granted through June 30, 1979

b. New

George Berg, Lewistown, request withdrawn
Lincoln Landfill Board, Lincoln, request withdrawn

5. Enforcement Actions:

Citations

Brand S Lumber, Livingston, wood waste burner rule

6. Tepee Burner and Open Burning:

Tepee burner - number in operation is currently 20

Open burning Permits Issued:

| | | | |
|------------------|------|--------------------|------|
| Kalispell Office | 1845 | Sanders County | 150 |
| Cascade County | 36 | Yellowstone County | 486 |
| Lake County | 372 | Rest of State | 1434 |
| Missoula County | 499 | Total | 4822 |

7. Source Tests Performed: None in April

8. Field Investigations:

Brand S Lumber, Livingston, citation issued
Brand S Lumber, Livingston, investigation
Lincoln Landfill, Lincoln, investigation
Willow Creek Lumber, Livingston, investigation
Kalmont Lumber, Kalispell, investigation
Klinger Lumber, Kalispell, investigation
Louisiana Pacific, Columbia Falls, investigation, citation issued
Plum Creek Lumber, Columbia Falls, investigation
Anaconda Aluminum, Columbia Falls, investigation
Stoltze Land & Lumber, Columbia Falls, investigation, citation issued
Montana Lumber & Plywood, Kalispell, investigation
C & C Plywood, Kalispell, investigation
Dept. of Highways batch plant, Kalispell, investigation
Weatherford Crematorium, Kalispell, investigation
Plum Creek Lumber, Fortine, investigation
Kennedy Stevens Lumber, Eureka, investigation
W. R. Grace and Co., Libby, investigation, citation issued
St. Regis Lumber, Libby, investigation
Louisiana Pacific, Trout Creek, investigation, citation issued
Thompson Falls (Pack River) Lumber, Thompson Falls, investigation, citation issued

9. Complaints:

C & C Plywood, Kalispell, smoke, inspected
Individual, Colstrip, dust, investigation
Brand S Lumber, Livingston, soot, investigation
Individual, Kalispell, burning, warning letter sent
Sewage Treatment Plant, Helena, odor, investigation
Rice Transport, Shelby, dust, investigation

10. Data Processing Services:

- a. Ambient Data Summary - Attached
- b. Emission Inventory Status

Work was done on estimating the cost and time involved in modifying the system to meet the Bureau's needs.

- c. Prevention of Significant Deterioration
No significant activities were performed.
- d. Modeling

Reviewed the study to determine Good Engineering Practice (GEP) stack height for ASARCO at East Helena. Also attended one meeting on the stack height.

11. Environmental Impact Statements:

None were written during April.

12. Status of Studies, Contracts and Reports:

Network Review - draft is finished, comments received, final to be submitted in May

Poplar River Study continuing to operate; next report due in July

Flathead Environmental Study is operating, report due in July

MAPS final meteorology report due in June

DESPUR - reviewing contractor proposals

Montana Ambient Air Quality Standards - working on final EIS; answering comments

Montana Air Pollution Study - extended for two more years; reports due in June and July for first two years.

Contracts for some of the above studies have been written for the next fiscal year. It is anticipated that all contracts will be finalized by the first of June.

13. Schools and Training:

EPA Enforcement Conference, Helena, April 24

14. Public Hearings and Meetings:

a. Public Hearings held - None

b. Meetings Attended:

Governor's Office, Helena, Brand S Lumber

City Manager, Bozeman, regarding street dust

Sanitarians Conference, Helena

Lincoln Landfill Board, Lincoln, regarding variance

Brand S Lumber, Helena, regarding variance request

Airshed meeting, Anaconda

Kalispell fire department, Kalispell, regarding burning

Lt. Governor, Helena, regarding Poplar River

Spring Creek proposal for monitoring, Helena

EPA, Helena, regarding review of emergency plans

c. Intra-staff meetings:

Staff regarding network review

Bureau staff meetings

Bureau staff meeting regarding MAPS

Bureau staff regarding budget

15. Public Information Requests:

Three interview requests regarding open burning and Brand S
Miscellaneous air quality information sent to school students for term papers

Continued to receive requests for ambient air standards EIS

March 1979

Unit: micro gram/cubic meter

| AREA | | HIGH SCHOOL | | | ACADEMIC AVERAGE | | |
|------|-------------------------------|---------------|--------------|--------------|------------------|-----------------------|-------------------|
| ACCR | Site Location | Current Month | Year-to-Date | Running Year | Year-to-Date | No. of Months of Data | Comments |
| 140 | Morton-Decker | 41 | 79 | 79 | 34 | 3 | |
| | Warren Ranch | | | | | | |
| | Big Horn Co. Lockwood School | 13 | 42 | 100 | 12 | 3 | |
| | Billings | | | * | | | |
| | Billings City Hall | 49 | 69 | 155 | 40 | 3 | |
| 141 | Billings | 288 | 288 | 288 | 85 | 2 | |
| | Grand Ave. Sch. Billings | 302 | 302 | 302 | 77 | 3 | 1 exc Fed Pri Sec |
| | Central Park Billings | 246 | 246 | 246 | 40 | 3 | 2 exc Fed Sec Sec |
| | Laurel Jr. High Laurel | | | * | | | |
| | Expositional Roof Great Falls | | | * | | | |
| 142 | Fire Station #1 Great Falls | | | * | | | |
| | Kneavis Park Great Falls | 111 | 111 | 111 | 34 | 3 | |
| | Hiway Jct. Anaconda | 38 | 59 | 155 | 30 | 3 | |
| | Lincoln School Anaconda | 303 | 303 | 303 | 50 | 3 | 1 exc Fed Pri Sec |
| | Floral Park Butte | 112 | 112 | 112 | 59 | 3 | 3 exc Fed Sec Sec |

* - Data not available at time of report.

...please provide notes

| Parameters: Total Suspended Particulate | | | | Unit: microgram/cubic meter | | | |
|---|-----------------|---------------|--------------|-----------------------------|--------------|-------------|-------------------|
| Area | | Time Period | | Analytic Ave. | | | |
| ACCR | Site Location | Current Month | Year-to-Date | Running Year | Year-to-Date | No. of Runs | Current Date |
| 142 | McKinley Res. | 80 | 80 | 142 | 30 | 3 | |
| | Granite Co. | | | | | | |
| | Gr. Canyon Res. | 181 | 181 | 181 | 72 | 3 | 1 exc Fed Sec Sta |
| | Butte | | | | | | |
| | Greenley School | 158 | 196 | 196 | 95 | 3 | 1 exc Fed Sec Sta |
| | Butte | | | | | | |
| | Hobgen Park | 225 | 225 | 225 | 85 | 3 | 5 exc Fed Sec Sta |
| | Butte | | | | | | |
| | Thierney Res. | 34 | 73 | 81 | 32 | 3 | |
| | Silver Bow Co. | | | | | | |
| | Microvane | 89 | 89 | 101 | 38 | 3 | |
| | Jefferson Co. | 92 | 124 | 201 | 78 | 3 | |
| | 212 E. Pacific | | | | | | |
| | East Helena | | | | | | |
| | Cogswell Bldg. | 211 | 211 | 211 | 64 | 3 | 1 exc Fed Sec Sta |
| | Helena | | | | | | |
| 143 | Lindsay | 17 | 28 | 28 | 13 | 3 | |
| | Gawson Co. | | | | | | |
| | Lane Deer | 6 | 10 | 34 | 4 | 3 | |
| | Ansabud Co. | | | | | | |
| | Fort Peck | 11 | 12 | 58 | 7 | 3 | |
| | McClone Co. | | | | | | |
| | BN Site | 40 | 40 | 138 | 18 | 1 | |
| | Colstrip | | | | | | |
| | McRae Site | 21 | 21 | 21 | 9 | 3 | |
| | Colstrip | | | | | | |
| | Border Site | 10 | 12 | 80 | 7 | 3 | |
| | Scobey | | | | | | |

Units: micro gram/cubic meter

| AREA | | HIGH READING | | | ARITHMETIC AVER. | | | Comments |
|------|--|--|--|---|---|---|--|----------|
| ACCR | Site Location | Month | Year | Month | Year | Month | | |
| | | Year | to Date | Year | to Date | to Date | | |
| 144 | Anders Res. Cod. Falls Traylor - NAAC Flathead Co. Ronan Lake Co. Polson Lake Co. Moose City Flathead Co. Libby - Brown Lincoln Co. Kalispell Airport Flathead Co. Kalispell-Strom Flathead Co. Confluence of Columbia River Missoula Lion's Park Missoula Rose Park Missoula J. S. Field Missoula Co. Hoerner Mtd.#1 Missoula Co. Hoerner Mtd.#2 Missoula Co. Hoerner Mtd.#3 Missoula Co. | 353 37 123 75 15 523 120 343 267 419 317 | 353 50 123 75 15 523 120 343 267 419 317 | 375 59 170 75 40 1384 120 343 267 419 317 | 100 26 59 44 10 139 66 92 101.5 138.9 119.6 | 3 3 3 2 1 3 2 3 | | |

Units: micro grams/cubic meter

| AREA | | HIGH READING | | | ARITHMETIC AVERAGE | | |
|------|--------------------------|---------------|--------------|--------------|--------------------|-------------|----------|
| ACQ# | Site Location | Current Month | Year-to-Date | Running Year | Year-to-Date | No. of Days | Comments |
| 141 | Kwan's Park Great Falls | 25.2 | 104.4 | 104.4 | 17.5 | 3 | |
| 142 | Lincoln School Anaconda | 13.6 | 21.3 | 28.9 | 14.4 | 3 | |
| | coarse fine | 3.7 | 12.4 | 75.7 | 5.7 | 2 | |
| | Hebgen Park Butte | 9.8 | 41.1 | 41.9 | 16.2 | 2 | |
| | coarse fine | 30.6 | 30.6 | 59.1 | 17.3 | 2 | |
| | Floral Park Butte | 40.7 | 40.7 | 64.9 | 25.3 | 2 | |
| | coarse fine | 18.5 | 24.5 | 24.9 | 13.3 | 2 | |
| 143 | Border Site Scooby | 36.1 | 36.1 | 36.1 | 23.3 | 2 | |
| | coarse fine | 3.9 | 41.0 | 74.9 | 13.0 | 2 | |
| 144 | Courthouse Roof Missoula | 7.6 | 13.9 | 20.8 | 10.0 | 2 | |
| | coarse fine | 72.7 | 72.7 | 72.7 | 43.1 | 2 | |
| | Lion's Park Missoula | 40.4 | 55.6 | 55.6 | 24.9 | 2 | |
| | coarse fine | 184.2 | 184.2 | 88.2 | 2 | | |
| | | 79.3 | 83.2 | 102.6 | 40.7 | 2 | |

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
MONTHLY SUMMARY OF AIR QUALITY DATA

| Pollutant: Miscellaneous Continuous Data Units: ppm | | | | | | |
|--|--------------------------------|---------------|--------------|--------------|------------------|---------------------|
| AREA | | HIGH READING | | | ARITHMETIC AVER. | |
| AQCR | Site Location | Current Month | Year-to-Date | Running Year | Year-to-Date | No. of Mon. of Data |
| | Carbon Monoxide | | | | | |
| 140 | Fairgrounds Billings | | | * | | |
| 141 | 10th Ave. So. Great Falls | | | * | | |
| 142 | Alpine West Butte | 6.7 | 16.7 | 16.0 | 1.77 | 3 |
| | Hegben Park Butte | | | * | | |
| | Lincoln School Anaconda | | | * | | |
| 144 | Malfunction Jct. Missoula | | | * | | |
| | Lion's Park Missoula | 11.5 | 24.3 | 24.3 | 3.83 | 3 |
| 142 | Hydrocarbons Hegben Park Butte | | | * | | |
| | Lincoln School Anaconda | | | * | | |
| 144 | Lion's Park Missoula | | | * | | |
| 140 | Ozone Central Park Billings | 0.040 | 0.065 | .110 | 0.017 | 3 |
| 142 | Lincoln School Anaconda | 0.060 | 0.060 | 0.060 | 0.060 | 3 |
| | Hegben Park Butte | 0.058 | 0.058 | 0.077 | 0.018 | 3 |
| 144 | Lion's Park Missoula | 0.063 | 0.063 | 0.078 | 0.010 | 3 |

| Pollutant: Miscellaneous Continuous Data Units: ppm | | | | | | |
|--|--------------------------------------|---------------|--------------|--------------|------------------|---------------------|
| AREA | | HIGH READING | | | ARITHMETIC AVER. | |
| AQCR | Site Location | Current Month | Year-to-Date | Running Year | Year-to-Date | No. of Mon. of Data |
| | Nitrogen Oxide | | | | | |
| 140 | Central Park Billings | | | * | | |
| 142 | Hegben Park Butte | | | * | | |
| 144 | Lion's Park Missoula | | | * | | |
| 140 | Sulfur Dioxide Central Park Billings | 0.065 | 0.225 | 0.225 | 0.017 | 3 |
| | Lincoln School Anaconda | | | * | | |
| | Laurel Farm Laurel | | | * | | |
| 142 | East Stock East Helena | 0.07 | 0.33 | 0.33 | 0.01 | 3 |
| | Microwave East Helena | 0.39 | 0.72 | 0.72 | 0.02 | 3 |
| | Broudy Ranch East Helena | | | * | | |
| | Hwy Jct. Anaconda | 1.51 | 2.30 | 2.75 | 0.086 | 3 |
| | Mt. Creek Anaconda | 1.62 | 1.62 | 1.62 | 0.03 | 3 |
| | Lincoln School Anaconda | 0.80 | 1.03 | 1.03 | 0.04 | 3 |
| | Hegben Park Butte | 0.092 | 0.092 | 0.092 | 0.011 | 3 |

* Data unavailable at time of report.

| Pollutant: Miscellaneous Indicators Units | | | | | | |
|--|---|---------------|--------------|--------------|------------------|---------------------|
| AREA | | HIGH READING | | | ARITHMETIC AVER. | |
| AQCR | Site Location | Current Month | Year-to-Date | Running Year | Year-to-Date | No. of Mon. of Data |
| | Dustfall-tons/sq. mi. | | | | | |
| 141 | Mountain States Great Falls | 18.77 | 18.77 | 18.77 | 18.77 | 1 |
| | Fire Station #1 Great Falls | 37.20 | 37.20 | 37.20 | 37.20 | 1 |
| 140 | Sulfation Rate 3/8" to 1/2" COOP Billings | | | * | | |
| | E of Laurel Billings | | | * | | |
| | Hi-Ball Trucking Billings | | | * | | |
| 141 | Stock Car Track Great Falls | | | * | | |
| | Phillips Ref. N. Great Falls | | | * | | |
| | Phillips Ref. E. Great Falls | | | * | | |
| 142 | Microwave East Helena | 0.14 | 0.56 | 0.56 | 0.36 | 3 |
| | 212 E. Pacific East Helena | 0.19 | 0.37 | 0.37 | 0.28 | 3 |
| | East Stock Sta. East Helena | 0.21 | 0.47 | 0.47 | 0.34 | 3 |
| | Broudy Ranch East Helena | 0.10 | 0.27 | 0.27 | 0.17 | 3 |
| | 2650 Pinchley Pass East Helena | 0.13 | 0.31 | 0.31 | 0.21 | 3 |

| Pollutant: Miscellaneous Indicators Units: | | | | | | |
|---|------------------------------------|---------------|--------------|--------------|------------------|---------------------|
| AREA | | HIGH READING | | | ARITHMETIC AVER. | |
| AQCR | Site Location | Current Month | Year-to-Date | Running Year | Year-to-Date | No. of Mon. of Data |
| | Fluoride Papers-lb/sq. cm /30 days | | | | | |
| 144 | Cehlon's Mt. Box Flathead Co. | 1.20 | 1.20 | 1.20 | 0.81 | 3 |
| | Anaconda South Flathead Co. | 4.00 | 5.90 | 5.90 | 4.02 | 3 |
| | Glacier Park #1 Glac. Nat Park | | | ** | | |
| | Glacier Park #2 Glac. Nat Park | | | ** | | |
| | Glacier Park #9 Glac. Nat Park | | | ** | | |
| 144 | Fluoride Plates-lb/sq. cm /30 days | | | | | |
| | Anaconda South Flathead Co. | | | ** | | |
| | Trailer - NAAC Flathead Co. | 0.69 | 1.68 | 1.68 | 1.03 | 3 |
| | Glacier Park #1 Glac. Nat Park | 0.11 | 0.86 | 0.86 | 0.49 | 2 |
| | Glacier Park #2 Glac. Nat Park | 0.16 | 0.54 | 0.54 | 0.35 | 2 |
| | Glacier Park #9 Glac. Nat Park | 0.24 | 0.26 | 0.26 | 0.25 | 2 |
| 143 | SO2 Bubble-tran Border site Scobey | 0.0 | 0.0 | 0.0 | 0.0 | 3 |
| 143 | NO2 Bubble-tran Border site Scobey | 0.0 | 0.01 | 0.01 | 0.001 | 3 |

* No valid sample.

